

ABSTRACT**Method, Mobile Station And Base Station For Connection Setup In A Radio Communication System**

A radio communication system, for example a TDMA/CDMA radio communication system, ^{has} ~~having~~ at least one base station ~~(BS)~~ ^{offering} ~~recurrently~~ ^{an} ~~offers~~ frequency channels for a random access for mobile stations ~~(MS)~~ in upstream direction. The mobile station that requests a connection setup measures a reception power ~~(rp)~~ ^a of a signal ~~(ss)~~ sent in downstream direction by the base station ~~(BS)~~ and sets a transmission power ~~(tp)~~ for sending an access radio block ~~(rab)~~ to the base station dependent on the measured reception power. A variable transmission power control can thus be implemented at the mobile station side with the assistance of the measured reception power of the signal transmitted on the part of the base station, being also capable of being implemented for random access of the mobile stations, this having previously always ^{occurred} ~~ensued~~ with maximum transmission power.

~~FIG. 1~~